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PTO/SB/21 (12-97)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

BOX:

Express Mail  
Receipt No.

Application / Conf. No.	10/086,129 / 2232
Filing Date	February 28, 2002
First Named Inventor	David P. Schultz
Examiner Name	Unknown
Group Art Unit	2133
Issue Fee Batch No.	OCT 21 2002 Technology Center 2100
Attorney Docket Number	X-1069 US

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## ENCLOSURES (check all that apply)

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input checked="" type="checkbox"/> Amendment / Response<br>X Preliminary Amendment<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavit(s)/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Change Status to LARGE ENTITY<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Substitute PTO-1449(s)<br>IDS by Applicant (PTO/SB/08A)<br><input type="checkbox"/> Certified Copy of Priority<br>Document(s)<br><input type="checkbox"/> Response to Missing Parts/<br>Incomplete Application<br><input type="checkbox"/> Response to Missing<br>Parts under 37 CFR<br>1.52 or 1.53 | <input type="checkbox"/> Assignment Papers<br>(with Recordation Cover Sheet)<br><input type="checkbox"/> Declaration / Oath<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition -<br><input type="checkbox"/> To Convert a<br>Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence<br>Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund | <input type="checkbox"/> After Allowance Communication<br>to<br><input type="checkbox"/> Appeal Communication to Board<br>of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group<br>(Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Return Receipt Postcard<br><input type="checkbox"/> Additional Enclosure(s)<br>(please identify below) |
|---|--|---|

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Customer Number	24309 (Customer Number)	Reg. Number 35,477
Attn:	H. C. Chan	
Signature		
Date	October 10, 2002	Charge any additional fees required/credit any overpayment to our Deposit Account Number: 24-0040

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D. C. 20231 on this date: October 10, 2002

Typed or Printed Name	Pat Slaback		
Signature			
	Date	October 10, 2002	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT (\$ 210.00)

## Complete if Known

Application / Conf. No.	10/086,129 / 2232
Filing Date	February 28, 2002
First Named Inventor	David P. Schultz
Examiner Name	Unknown
Group / Art Unit	2133
Attorney Docket No.	X-1069 US

METHOD OF PAYMENT (check one)	
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees, any additional fees required, and credit any over payments to: <b>24-0040</b>	
Deposit Account Number	<b>XILINX, INC.</b>
Deposit Account Name	
<input type="checkbox"/> Charge the any additional Fee Required Under 37 CFR §§ 1.16 and 1.17	
<input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other	

FEE CALCULATION			
1. BASIC FILING FEE			
Large Entity	Fee Paid	Fee Description	Fee
Code	(\\$)		
101	740	Utility filing fee	
106	330	Design filing fee	
107	540	Plant filing fee	
108	710	Reissue filing fee	
114	150	Provisional filing fee	
<b>SUBTOTAL (1)</b>		(\$)	
2. EXTRA CLAIM FEES			
Fee from Extra      below      Fee Paid Total Claims - 20* = <b>27</b> X <b>7</b> = <b>18</b> \$126 Indep. Claims    06    - 3** = <b>1</b> X <b>84</b> = <b>84</b> \$84 Multiple Dependent Claims    X    =    =    =			
** or number previously paid, if greater; For Reissues, see below			
Large Entity	Fee Paid	Fee Description	
Code	(\\$)		
103	18	Claims in excess of 20	
102	84	Independent claims in excess of 3	
104	270	Multiple dependent claim, if not paid	
109	84	**Reissue independent claims over original patent	
110	18	**Reissue claims in excess of 20 and over original patent	
<b>SUBTOTAL (2)</b>		(\$)	

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Code	(\\$)	Fee Description	Fee Paid
105	130	Surcharge - late filing fee group	
127	50	Surcharge - late provisional filing fee or cover sheet	
147	2,520	For filing a request for ex parte reexamination	
112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	Requesting publication of SIR after Examiner action	
115	110	Extension for reply within first month	
116	400	Extension for reply within second month	
117	920	Extension for reply within third month	
118	1,440	Extension for reply within fourth month	
128	1,960	Extension for reply within fifth month	
119	320	Notice of Appeal	
120	320	Filing a brief in support of an appeal	
121	270	Request for oral hearing	
138	1,510	Petition to institute a public use proceeding	
140	110	Petition to revive - unavoidable	
141	1,240	Petition to revive - unintentional	
142	1,280	Utility issue fee (or reissue)	
122	130	Petitions to the Commissioner	
123	50	Petitions related to provisional applications	
126	180	Submission of Information Disclosure Stmt	
581	40	Recording each patent assignment per property (times number of properties)	
146	740	Filing a submission after final rejection (37 CFR 1.129(a))	
149	740	For each additional invention to be examined (37 CFR 1.129(b))	
179	740	Request for Continued Examination (RCE)	
Other fee (specify) _____			

\*Reduced by Basic Filing Fee Paid    **SUBTOTAL (3)** (\$)

SUBMITTED BY		Complete (if applicable)			
Name (Print/Type)	H. C. Chan	Registration No. (Attorney/Agent)	35,477	Telephone	408-879-6149
Signature	<i>H. C. Chan</i>				Date

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OCT 15 2002

PATENT  
Conf. No. 2232#41A  
10-25-02  
M.C.IN THE UNITED STATES PATENT OFFICE

Applicant: David P. Schultz  
Assignee: Xilinx, Inc.  
Title: Method and System for Flexibly Nesting JTAG TAP Controllers for FPGA-Based System-On-Chip (SoC)  
Serial No.: 10/086,129 File Date: 2/28/2002  
Examiner: Unknown Art Unit: 2133  
Docket No.: X-1069 US Conf. No.: 2232

COMMISSIONER FOR PATENTS  
Washington, D. C. 20231

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PRELIMINARY AMENDMENT

Dear Sir:

Before taking action in the above-referenced case, please make the following amendments to the claims.

IN THE CLAIMS

~~Please replace Claim 14 with the following:~~

14. (Amended) A system for flexibly accessing nested JTAG TAP controllers for IP cores in a FPGA-based SoC, the system comprising:

A1      a selector for choosing at least one IP core JTAG TAP controller from a plurality of JTAG TAP controllers nested in the FPGA-based SoC; and

      a multiplexer for programmably connecting said at least one IP core JTAG TAP controller to a host JTAG TAP controller.

~~Please add Claims 21-27 as follows:~~

21. (New) A system for performing boundary scan functions on a plurality of IP cores, the system comprising:

A2  
cmnt      an FPGA-based system-on-chip (SoC) comprising a plurality of IP cores each including a first JTAG TAP controller; and